

# Sim-Cast

## Delivering casting solutions

*Sim-Cast's turnkey solutions reduce metal, scrap and labour.*

### Current improvement methods

With today's high metal prices foundries often focus on improving the metal efficiencies of their processes in order to reduce costs.

With metal utilisation rates as low as 50% for many investment cast products, foundries can be forgiven for not considering the other improvement opportunities

### Holistic improvement

Sim-Cast is able to address the improvement with a fully integrated and holistic approach, by including the reduction of scrap and labour content whilst at the same time increasing capacity.

In addition Sim-Cast's simulation and CAD capabilities enable a reduced number of real trials, as well as real

trials prior to commitment of tooling modifications.

### Improvement objectives

In short Sim-Cast is able to create a turnkey package that achieves;

- Metal utilisation of > 85%
- Scrap of < 20%
- Time to new pattern 4 – 6 weeks
- Time to achieve validation 6 – 8 weeks
- Wax assembly labour < 90 seconds / part

Based on Sim-Cast's unique capabilities and integrated working, carefully assessed packages are created and introduced with minimum risk delivering sustainable cost reduction solutions to the customer's requirements.



### This issue – August 07

- Cost reduction
- Holistic improvement
- Improvement objectives

### Contact Sim-Cast

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### Previous Issues

- [March 2007](#)
- [April 2007](#)
- [May 2007](#)
- [June 2007](#)
- [July 2007](#)

### Wax assembly design and improvement

Sim-Cast improvement solutions include the design and improvement of gating and runner systems, which improve metal utilisation as well as increased quality and speed of wax assembly.

Sim-Cast is also able to provide support through continuous improvement of sourced solutions.

### Improved assembly benefits

	Before	Sim-Cast New Gating solution
Assembly time	10 minutes	2 minutes
Learning curve	8 hours	1 hour
Complexity	Hi	Lo
Operational cost	\$25	\$12

Additional benefits include;

- Increased dimensional consistency
- Reduced orientation variation
- Reduced processing time

[www.sim-cast.co.uk](http://www.sim-cast.co.uk)

